## CLAIMS

- 1. Process for the production of pressure sensitive adhesive materials or sealing materials having a defined cross-sectional geometry and three-dimensional structure, especially in the form of rolled or continuous materials, the said process comprising the following steps:
- (a) preparing a polymerizable mass (5);
- (b) applying this mass to an abhesive support (1, 2, 3, 6) in web form which, in longitudinal direction, has one or more depressions (30) having a predetermined cross-sectional contour, or filling said mass into one or more contour-imparting, abhesive hollow bodies (11) which have a predetermined cross-sectional contour;
- (c) feeding the mass to a curing unit (7) for curing the polymerizable mass (5).
- 2. Process according to claim 1, characterized in that the said mass is polymerizable by radiation.
- 3. Process according to claim 1 or 2, characterized in that the polymerizable mass contains at least one compound from the group of the acrylates and methacrylates, preferably a mixture of at least two compounds from the group comprising acrylates and methacrylates.
- 4. Process according to any one of the preceding claims, characterized in that the polymerizable mass prepared in step (a) is a polymer syrup.
- 5. Process according to any one of the preceding claims, characterized in that during the preparation of the polymerizable mass, one or more photoinitiators is/are added, and in that an irradiation unit, or a plurality of such units, is used as the curing unit.

- 6. Process according to claim 5, characterized in that an irradiation unit is used which has one or more UV lamps.
- 7. Process according to claim 5, characterized in that an irradiation unit is used which has one or more daylight lamps.
- 8. Process according to claim 5, characterized in that an irradiation unit is used which has one or more electron beam sources.
- 9. Process according to claim 5, characterized in that an irradiation unit is used which has a combination of at least two different radiation sources, selected from the group comprising UV lamps, daylight lamps and electron beam sources.
- 10. Process according to any one of the preceding claims, characterized in that a continuous band or belt (6) is used as the abhesive support in web form.
- 11. Process according to claim 10, characterized in that the belt (6) has one or more depressions or/and protrusions, the profile of which corresponds to the desired final contour of the pressure sensitive adhesive product or of the sealing material.
- 12. Process according to claim 10 or 11, characterized in that the materials thus produced are subsequently processed to rolls or coils by means of a wind-up unit (8).
- 13. Process according to claims 1 to 9, characterized in that as the contour-imparting hollow body/bodies (11), a tubular, fillable material is used which is abhesive or is rendered abhesive on its interior side.

- 14. Pressure sensitive adhesive materials or sealing materials which have a three-dimensional structure and a defined cross-sectional contour.
- 15. Materials according to claim 14, characterized in that they have a round, circular, semi-circular, oval, elliptic, triangular, quadrangular, polygonal or irregular cross-sectional contour.
- 16. Materials according to claim 14 or 15, characterized in that they are present as rolled or continuous material, especially in the form of strings, strands or strips.
- 17. Materials according to any one of claims 14 to 16, characterized in that they can be produced by polymerisation of (meth)acrylates.
- 18. Materials according to any one of claims 14 to 17, characterized in that they are produced according to any one of the processes according to claims 1 to 12.
- 19. Use of the pressure sensitive adhesive materials according to claims 14 to 18 for the permanent or releasable adhesive bonding of objects.
- 20. Use of sealing materials according to any one of claims 14 to 18 for sealing of joints or flanged joints or panes.